

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
6 May 2005 (06.05.2005)

PCT

(10) International Publication Number
WO 2005/040401 A3

(51) International Patent Classification⁷: **C12Q 1/00**

(21) International Application Number:
PCT/EP2004/011015

(22) International Filing Date: 2 October 2004 (02.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03023809.1 17 October 2003 (17.10.2003) EP

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
23 June 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **DIAGNOSTICS AND THERAPEUTICS FOR DISEASES ASSOCIATED WITH MOSAIC SERINE PROTEASE (MSP)**

(57) Abstract: The invention provides a human MSP which is associated with the cardiovascular diseases, endocrinological diseases, metabolic diseases, cancer, inflammation, gastroenterological diseases, hematological diseases, respiratory diseases, neurological diseases, urological diseases and reproduction disorders. The invention also provides assays for the identification of compounds useful in the treatment or prevention of cardiovascular diseases, endocrinological diseases, metabolic diseases, cancer, inflammation, gastroenterological diseases, hematological diseases, respiratory diseases, neurological diseases, urological diseases and reproduction disorders. The invention also features compounds which bind to and/or activate or inhibit the activity of MSP as well as pharmaceutical compositions comprising such compounds.



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